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Aims and Scope

The *Journal of Aerosol Science* is a long-established international publication which sets out to encourage and foster all aspects of basic and applied aerosol research by publishing high quality scientific papers in that very multidisciplinary field. The submission of original papers is encouraged, describing recent theoretical and experimental research relating to:

—the basic physical and chemical properties of particles in aerosol systems of all types
—their measurement
—their formation, transport and deposition
—their industrial, medical and environmental effects and applications.

Occasional reviews of broader interest may also be considered. The aim in all published articles is to present results in a form which can be generalized as far as possible.

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A Selection of Papers
P. J. MASON (UK), Large-eddy simulation of dispersion in convective boundary layers with wind shear.
T. VESALA & J. KUKKONEN (Finland), A model for binary droplet evaporation and condensation, and its application for ammonia droplets in humid air.
J. P. GARCIA, S. BEYNE-MASCLET, G. MOUVIER & P. MASCLET (France), Emissions of volatile organic compounds by coal-fired power stations.
G. J. D. KIRK & RACHHPAL-SINGH (Philippines), Simultaneous transfer across an air-water interface of gases that interact through acid-base reactions.
D. M. LEAHEY & M. C. HANSEN (Canada), Estimates of dark ecosystem respiration of CO_2 from the city of Calgary, Alberta.

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As more of the world's population moves into cities, the air we breathe in this environment is becoming an increasing concern. The problems faced by urban planners in creating a healthy and comfortable environment are many, with particular problems in the tropics, where the world's largest cities will be in the next century. *Atmospheric Environment Part B: Urban Atmosphere* will cover topics on the urban environment such as climate energy and moisture balances, meteorology, hydrology, health, building science, city and regional planning and air pollution with field studies, data analysis, models and reviews, collecting in one journal papers on urbanization that might before have been found distributed throughout a variety of journals.

A Selection of Papers

J. D. GOODRIDGE (USA), Urban bias influences on long-term California air temperature trends.

P. E. TODHUNTER, FANG XU (USA) & **J. M. BUTTLE** (Canada), A model of net radiation over suburban snowpacks.

A. LONGHETTO, L. GIACOMELLI, C. GIRAUD & G. ZARAMELLA (Italy), A study of correlation among solar energy, atmospheric turbidity and pollutants in urban area.

I. UNO, S. WAKAMATSU, H. UEDA & A. NAKAMURA (Japan), Observed structure of the nocturnal urban boundary layer and its evolution into a convective mixed layer.

R. WESTERHOLM, J. ALMÉN, HANG LI, U. RANNUG & Å ROSÉN (Sweden), Exhaust emissions from gasoline-fuelled light duty vehicles operated in different driving conditions: a chemical and biological characterization.

R. W. SIMPSON (Australia), A statistical analysis of particulate data sets in Brisbane, Australia.

E. HERNÁNDEZ, F. MARTÍN & F. VALERO (Spain), Statistical forecast models for daily air particulate iron and lead concentrations for Madrid, Spain.

A.-L. PASANEN, H. HEINONEN-TANSKI, P. KALLIOKOSKI & M. J. JANTUNEN (Finland), Fungal microcolonies on indoor surfaces—an explanation for the base-level fungal spore counts in indoor air.

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